



2005 TRI Public Data Release eReport

Data Tables and Charts Section E – Quantities of TRI Chemicals in Waste

Quantities of TRI Chemicals in Waste, 2005

Waste Management Activity	2005	
	Pounds	Percent
Quantity Recycled	8,972,973,497	35.8
Quantity Recycled On-site	6,955,592,011	27.7
Quantity Recycled Off-site	2,017,381,486	8.0
Quantity Used for Energy Recovery	3,018,834,164	12.0
Quantity Used for Energy Recovery On-site	2,410,890,886	9.6
Quantity Used for Energy Recovery Off-site	607,943,278	2.4
Quantity Treated	8,637,333,393	34.4
Quantity Treated On-site	8,061,669,753	32.1
Quantity Treated Off-site	575,663,639	2.3
Total Quantity Disposed of or Otherwise Released	4,452,242,575	17.8
Total On-site Disposal to Class I Underground Injection Wells, RCRA Subtitle C Landfills, and Other Landfills	624,789,724	2.5
Total Other On-site Disposal or Other Releases	3,163,341,257	12.6
Total Off-site Disposal to Class I Underground Injection Wells, RCRA Subtitle C Landfills, and Other Landfills	417,878,291	1.7
Total Other Off-site Disposal or Other Releases	246,233,303	1.0
Total Production-related Waste Managed	25,081,383,629	100.0
Non-production-related Waste Managed	23,731,682	

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data document at www.epa.gov/tri/tridata.

Data are from TRI Form R Section 8.

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2005: All Industries

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
108-88-3 Toluene	1,004,498,177	26,359,517	1,030,857,694
7440-50-8 Copper	416,487,506	542,387,542	958,875,048
67-56-1 Methanol	637,601,103	14,421,353	652,022,456
-- Lead compounds	253,952,853	227,055,732	481,008,585
98-82-8 Cumene	455,323,303	2,646,129	457,969,432
-- Zinc compounds	77,218,701	366,929,836	444,148,536
107-21-1 Ethylene glycol	308,022,777	75,693,361	383,716,138
107-06-2 1,2-Dichloroethane	305,057,002	2,554,167	307,611,169
110-54-3 n-Hexane	289,695,981	4,327,871	294,023,852
76-13-1 Freon 113	263,024,304	36,557	263,060,861
7782-50-5 Chlorine	251,525,661	100,831	251,626,492
-- Copper compounds	113,771,991	117,612,713	231,384,705
107-13-1 Acrylonitrile	227,704,079	11,054	227,715,133
75-09-2 Dichloromethane	166,759,804	19,845,339	186,605,143
1330-20-7 Xylene (mixed isomers)	128,203,950	31,324,697	159,528,647
7664-93-9 Sulfuric acid	145,219,671	126,611	145,346,282
79-01-6 Trichloroethylene	137,587,413	2,128,474	139,715,887
75-65-0 tert-Butyl alcohol	131,106,014	473,990	131,580,004
75-01-4 Vinyl chloride	128,589,624	470	128,590,094
-- Chromium compounds	84,082,882	32,890,449	116,973,330
Subtotal for Top 20 Chemicals	5,525,432,795	1,466,926,693	6,992,359,488
Total for all TRI Chemicals	6,955,592,011	2,017,381,486	8,972,973,497

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2005: Manufacturing* Industries

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
108-88-3 Toluene	987,068,505	25,218,745	1,012,287,251
7440-50-8 Copper	416,487,506	540,660,910	957,148,416
67-56-1 Methanol	632,806,715	14,023,231	646,829,947
-- Lead compounds	252,411,962	224,517,664	476,929,626
98-82-8 Cumene	455,321,099	2,644,288	457,965,387
-- Zinc compounds	59,982,186	365,262,862	425,245,048
107-21-1 Ethylene glycol	296,559,515	57,221,365	353,780,880
107-06-2 1,2-Dichloroethane	305,057,002	2,552,845	307,609,847
110-54-3 n-Hexane	286,257,370	4,179,194	290,436,564
76-13-1 Freon 113	263,024,304	36,557	263,060,861
7782-50-5 Chlorine	248,223,960	95,920	248,319,880
-- Copper compounds	112,425,878	116,216,478	228,642,356
107-13-1 Acrylonitrile	227,704,079	11,054	227,715,133
75-09-2 Dichloromethane	145,366,150	18,604,913	163,971,063
7664-93-9 Sulfuric acid	145,219,671	126,611	145,346,282
79-01-6 Trichloroethylene	135,789,593	2,116,975	137,906,568
1330-20-7 Xylene (mixed isomers)	106,547,604	29,888,920	136,436,524
75-65-0 tert-Butyl alcohol	130,880,273	472,894	131,353,167
75-01-4 Vinyl chloride	128,589,624	470	128,590,094
7440-02-0 Nickel	19,402,333	96,264,827	115,667,160
Subtotal for Top 20 Chemicals	5,355,125,329	1,500,116,724	6,855,242,053
Total for all TRI Chemicals	6,812,929,876	1,972,368,909	8,785,298,785

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

* Manufacturing industries include SIC code 20-39 and "no codes" category.

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2005: Chemicals (SIC Code 28)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
108-88-3 Toluene	689,849,735	9,983,514	699,833,248
67-56-1 Methanol	625,262,317	11,122,093	636,384,410
98-82-8 Cumene	454,142,008	2,583,066	456,725,074
107-06-2 1,2-Dichloroethane	305,056,955	2,552,845	307,609,800
107-21-1 Ethylene glycol	252,666,922	30,187,688	282,854,610
76-13-1 Freon 113	263,024,304	0	263,024,304
107-13-1 Acrylonitrile	227,704,079	11,054	227,715,133
75-09-2 Dichloromethane	133,936,841	17,646,542	151,583,383
75-65-0 tert-Butyl alcohol	129,750,273	472,268	130,222,541
75-01-4 Vinyl chloride	128,589,624	470	128,590,094
1330-20-7 Xylene (mixed isomers)	85,469,170	16,421,552	101,890,723
-- Glycol ethers	87,663,794	438,941	88,102,735
7664-41-7 Ammonia	74,328,069	1,058,917	75,386,986
74-85-1 Ethylene	72,171,783	0	72,171,783
-- Nitrate compounds	62,016,012	0	62,016,012
108-95-2 Phenol	57,231,106	226,962	57,458,068
79-00-5 1,1,2-Trichloroethane	48,422,200	3,339,966	51,762,166
115-07-1 Propylene	49,631,005	0	49,631,005
50-00-0 Formaldehyde	45,765,862	7,438	45,773,300
108-10-1 Methyl isobutyl ketone	39,861,559	4,685,945	44,547,504
Subtotal for Top 20 Chemicals	3,832,543,618	100,739,260	3,933,282,879
Total for all TRI Chemicals	4,306,651,953	164,021,136	4,470,673,089

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Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2005: Primary Metals (SIC Code 33)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
7440-50-8 Copper	370,557,137	231,398,659	601,955,796
-- Zinc compounds	49,082,153	276,152,430	325,234,582
7782-50-5 Chlorine	209,377,042	13,335	209,390,377
-- Lead compounds	157,207,160	48,979,155	206,186,316
-- Copper compounds	99,422,073	52,445,409	151,867,483
-- Chromium compounds	75,901,085	21,921,874	97,822,959
-- Manganese compounds	32,146,792	41,361,880	73,508,672
-- Nickel compounds	35,392,784	14,773,173	50,165,957
79-01-6 Trichloroethylene	48,291,871	255,185	48,547,056
7439-92-1 Lead	26,148,466	9,480,803	35,629,269
7439-96-5 Manganese	21,632,657	12,792,243	34,424,900
7440-02-0 Nickel	17,247,719	12,083,556	29,331,276
7440-66-6 Zinc (fume or dust)	288,665	21,836,451	22,125,116
7440-47-3 Chromium	6,414,784	14,467,887	20,882,671
7550-45-0 Titanium tetrachloride	18,093,334	0	18,093,334
108-10-1 Methyl isobutyl ketone	17,431,600	114,965	17,546,565
127-18-4 Tetrachloroethylene	16,620,000	840	16,620,840
7664-39-3 Hydrogen fluoride	15,711,731	47,046	15,758,777
7647-01-0 Hydrochloric acid	14,755,930	804,708	15,560,638
7697-37-2 Nitric acid	13,100,723	398,842	13,499,565
Subtotal for Top 20 Chemicals	1,244,823,708	759,328,443	2,004,152,150
Total for all TRI Chemicals	1,265,625,709	784,427,110	2,050,052,818

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Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2005: Paper Products (SIC Code 26)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
108-88-3 Toluene	56,291,354	2,508,252	58,799,606
110-54-3 n-Hexane	6,052,083	144,688	6,196,771
75-15-0 Carbon disulfide	3,613,041	0	3,613,041
872-50-4 N-Methyl-2-pyrrolidone	0	653,545	653,545
110-82-7 Cyclohexane	506,000	6	506,006
107-21-1 Ethylene glycol	0	290,034	290,034
1330-20-7 Xylene (mixed isomers)	99,332	168,954	268,286
0049-04-4 Chlorine dioxide	247,450	0	247,450
7782-50-5 Chlorine	201,040	0	201,040
7429-90-5 Aluminum (fume or dust)	0	173,000	173,000
-- Manganese compounds	0	128,536	128,536
-- Barium compounds	0	118,797	118,797
67-56-1 Methanol	77,089	4,254	81,343
-- Zinc compounds	21,855	19,852	41,707
-- Lead compounds	0	37,263	37,263
-- Nickel compounds	0	31,305	31,305
100-41-4 Ethylbenzene	7,600	21,034	28,634
7664-41-7 Ammonia	28,220	267	28,487
7440-02-0 Nickel	0	17,532	17,532
108-05-4 Vinyl acetate	11,225	2,447	13,672
Subtotal for Top 20 Chemicals	67,156,289	4,319,766	71,476,055
Total for all TRI Chemicals	67,183,645	4,356,589	71,540,233

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Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2005: Food Products (SIC Code 20)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
110-54-3 n-Hexane	246,633,056	0	246,633,056
7664-41-7 Ammonia	24,295,668	392,810	24,688,478
67-56-1 Methanol	4,040,404	41,102	4,081,506
7697-37-2 Nitric acid	1,174,761	15,006	1,189,767
7440-02-0 Nickel	12,238	498,050	510,288
-- Nickel compounds	0	297,599	297,599
-- Nitrate compounds	24,474	240,890	265,364
107-21-1 Ethylene glycol	0	179,575	179,575
-- Zinc compounds	88,803	15,018	103,821
108-88-3 Toluene	78,784	0	78,784
-- Barium compounds	0	71,500	71,500
-- Chromium compounds	263	65,025	65,288
-- Manganese compounds	32,115	2,571	34,686
7782-50-5 Chlorine	29,769	0	29,769
-- Copper compounds	23,157	550	23,707
94-36-0 Benzoyl peroxide	6,211	0	6,211
74-87-3 Chloromethane	2,980	0	2,980
-- Lead compounds	0	2,921	2,921
75-56-9 Propylene oxide	2,000	0	2,000
7439-92-1 Lead	12	1,311	1,323
Subtotal for Top 20 Chemicals	276,444,695	1,823,928	278,268,623
Total for all TRI Chemicals	276,445,434	1,824,950	278,270,384

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Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2005: Metal Mining (SIC Code 10)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
-- Zinc compounds	17,235,635	656,692	17,892,327
7664-41-7 Ammonia	4,537,893	0	4,537,893
-- Nitrate compounds	3,255,603	0	3,255,603
-- Lead compounds	1,540,891	1,682,353	3,223,244
-- Copper compounds	1,346,113	539,439	1,885,552
-- Cyanide compounds	1,182,119	0	1,182,119
-- Nickel compounds	252,482	41,551	294,033
-- Cadmium compounds	285,224	3,034	288,258
-- Arsenic compounds	133,234	54,008	187,242
107-21-1 Ethylene glycol	0	128,313	128,313
-- Vanadium compounds	104,775	0	104,775
7440-47-3 Chromium	0	93,000	93,000
-- Selenium compounds	55,739	6,653	62,392
7439-96-5 Manganese	0	60,027	60,027
-- Antimony compounds	35,947	6,810	42,757
-- Cobalt compounds	39,007	3,267	42,274
-- Mercury compounds	38,801	1,731	40,531
-- Manganese compounds	16,095	20,121	36,216
-- Chromium compounds	704	27,842	28,546
7440-02-0 Nickel	2	12,852	12,854
Subtotal for Top 20 Chemicals	30,060,264	3,337,693	33,397,957
Total for all TRI Chemicals	30,080,463	3,352,116	33,432,579

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Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The Chemicals with Largest Total Recycling On-site and Off-site, 2005: Coal Mining (SIC Code 12)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
7664-41-7 Ammonia	14,800	0	14,800
107-21-1 Ethylene glycol	80	11,200	11,280
-- Chromium compounds	0	886	886
-- Nickel compounds	0	699	699
-- Zinc compounds	0	528	528
-- Manganese compounds	0	236	236
-- Lead compounds	0	18	18
-- Mercury compounds	0	11	11
Total for all TRI Chemicals	14,880	13,578	28,458

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2005: Electric Utilities (SIC Code 491/493)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
7440-62-2 Vanadium (except when contained in an alloy)	0	4,620,582	4,620,582
-- Chromium compounds	0	1,481,099	1,481,099
7440-02-0 Nickel	0	955,147	955,147
-- Nickel compounds	0	886,761	886,761
-- Barium compounds	0	690,022	690,022
-- Zinc compounds	0	682,539	682,539
-- Manganese compounds	0	653,394	653,394
-- Copper compounds	0	650,543	650,543
7440-39-3 Barium	0	568,337	568,337
-- Vanadium compounds	0	301,290	301,290
-- Lead compounds	0	77,144	77,144
-- Antimony compounds	0	20,174	20,174
107-21-1 Ethylene glycol	0	20,128	20,128
-- Polycyclic aromatic compounds	0	7,530	7,530
7782-50-5 Chlorine	1,501	4,911	6,412
7439-96-5 Manganese	0	5,465	5,465
7439-97-6 Mercury	0	4,925	4,925
-- Cobalt compounds	0	4,300	4,300
7439-92-1 Lead	0	3,094	3,094
-- Mercury compounds	0	2,880	2,880
Subtotal for Top 20 Chemicals	1,501	11,640,265	11,641,766
Total for all TRI Chemicals	1,501	11,645,797	11,647,298

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2005: Chemical Wholesale Distributors (SIC Code 5169)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
1330-20-7 Xylene (mixed isomers)	7,212,397	342,734	7,555,131
108-88-3 Toluene	1,554,896	440,603	1,995,499
108-10-1 Methyl isobutyl ketone	1,667,435	182,916	1,850,351
67-56-1 Methanol	564,142	351,629	915,771
71-36-3 n-Butyl alcohol	730,258	53,336	783,594
7782-50-5 Chlorine	650,000	0	650,000
-- Glycol ethers	4,072	114,301	118,373
75-09-2 Dichloromethane	14,129	101,559	115,688
68-12-2 N,N-Dimethylformamide	92,730	0	92,730
76-14-2 Dichlorotetrafluoroethane (CFC-114)	90,993	0	90,993
7664-41-7 Ammonia	27,793	50,978	78,771
75-63-8 Bromotrifluoromethane (Halon 1301)	73,876	0	73,876
95-63-6 1,2,4-Trimethylbenzene	20,054	40,028	60,082
75-71-8 Dichlorodifluoromethane (CFC-12)	58,430	0	58,430
353-59-3 Bromochlorodifluoromethane (Halon 1211)	48,000	0	48,000
107-21-1 Ethylene glycol	37,217	7	37,224
100-41-4 Ethylbenzene	2,974	33,673	36,647
100-42-5 Styrene	0	18,822	18,822
127-18-4 Tetrachloroethylene	2,772	13,226	15,998
7664-39-3 Hydrogen fluoride	15,280	0	15,280
Subtotal for Top 20 Chemicals	12,867,448	1,743,812	14,611,260
Total for all TRI Chemicals	12,892,348	1,767,182	14,659,530

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2005: Petroleum Terminals/Bulk Storage (SIC Code 5171)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
1634-04-4 Methyl tert-butyl ether	786,626	68,423	855,049
110-54-3 n-Hexane	595,649	89,107	684,756
108-88-3 Toluene	549,533	122,241	671,774
1330-20-7 Xylene (mixed isomers)	443,428	126,601	570,029
100-41-4 Ethylbenzene	143,706	83,857	227,563
95-63-6 1,2,4-Trimethylbenzene	129,177	80,761	209,938
91-20-3 Naphthalene	13,044	177,706	190,750
71-43-2 Benzene	136,403	49,567	185,970
107-21-1 Ethylene glycol	0	175,011	175,011
110-82-7 Cyclohexane	111,852	31,579	143,431
100-42-5 Styrene	26,437	412	26,849
98-82-8 Cumene	1,295	163	1,458
75-65-0 tert-Butyl alcohol	0	1,096	1,096
7439-92-1 Lead	0	563	563
-- Zinc compounds	0	403	403
-- Lead compounds	0	376	376
7439-97-6 Mercury	0	173	173
-- Polycyclic aromatic compounds	41	48	89
191-24-2 Benzo(g,h,i)perylene	40	2	41
108-95-2 Phenol	0	5	5
Subtotal for Top 20 Chemicals	2,937,231	1,008,095	3,945,327
Total for all TRI Chemicals	2,937,231	1,008,099	3,945,331

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Recycling On-site and Off-site, 2005: Hazardous Waste/Solvent Recovery (SIC Code 7389/4953)

CAS Number Chemname	Quantity Recycled On-site Pounds	Quantity Recycled Off-site Pounds	Total Quantity Recycled On-site and Off-site Pounds
107-21-1 Ethylene glycol	11,425,965	18,137,338	29,563,302
75-09-2 Dichloromethane	21,379,525	1,138,867	22,518,392
108-88-3 Toluene	15,325,243	577,928	15,903,171
1330-20-7 Xylene (mixed isomers)	14,000,522	966,441	14,966,963
872-50-4 N-Methyl-2-pyrrolidone	8,633,597	83,337	8,716,934
127-18-4 Tetrachloroethylene	7,161,373	969,017	8,130,390
67-56-1 Methanol	4,230,246	46,492	4,276,738
110-54-3 n-Hexane	2,834,506	59,420	2,893,926
7782-50-5 Chlorine	2,650,200	0	2,650,200
108-10-1 Methyl isobutyl ketone	1,933,154	240,698	2,173,852
79-01-6 Trichloroethylene	1,797,820	9,519	1,807,339
7440-50-8 Copper	0	1,720,232	1,720,232
71-36-3 n-Butyl alcohol	1,223,868	19,748	1,243,616
100-41-4 Ethylbenzene	688,425	244,884	933,309
68-12-2 N,N-Dimethylformamide	815,402	1	815,403
-- Nickel compounds	6,809	782,943	789,752
-- Lead compounds	0	778,177	778,177
95-50-1 1,2-Dichlorobenzene	715,945	0	715,945
-- Glycol ethers	587,080	17,789	604,869
-- Zinc compounds	0	326,811	326,811
Subtotal for Top 20 Chemicals	95,409,678	26,119,641	121,529,319
Total for all TRI Chemicals	96,735,712	27,225,806	123,961,518

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.4, Column B (Recycled on-site) and Section 8.5, Column B (Recycled off-site).

The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2005: All Industries

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
67-56-1 Methanol	353,526,638	138,799,865	492,326,503
74-85-1 Ethylene	435,175,939	21,117,306	456,293,245
108-88-3 Toluene	140,408,504	110,356,748	250,765,252
115-07-1 Propylene	240,690,916	6,785	240,697,702
1330-20-7 Xylene (mixed isomers)	87,439,460	84,736,075	172,175,535
7664-41-7 Ammonia	147,348,071	93,189	147,441,260
7664-93-9 Sulfuric acid	100,657,622	463,990	101,121,612
100-42-5 Styrene	37,430,678	15,821,816	53,252,494
71-43-2 Benzene	47,899,740	1,370,550	49,270,290
75-65-0 tert-Butyl alcohol	34,051,278	14,756,596	48,807,874
110-54-3 n-Hexane	30,916,945	16,468,765	47,385,711
100-41-4 Ethylbenzene	34,127,274	11,418,624	45,545,898
75-56-9 Propylene oxide	42,604,685	2,522,879	45,127,564
75-05-8 Acetonitrile	32,441,006	9,811,901	42,252,907
75-07-0 Acetaldehyde	37,646,392	192,051	37,838,443
107-06-2 1,2-Dichloroethane	34,548,137	313,235	34,861,372
108-10-1 Methyl isobutyl ketone	15,429,802	16,349,291	31,779,093
80-62-6 Methyl methacrylate	26,308,213	5,124,614	31,432,827
-- Glycol ethers	17,363,625	14,032,435	31,396,060
75-00-3 Chloroethane	31,001,523	12,743	31,014,266
Subtotal for Top 20 Chemicals	1,927,016,448	463,769,461	2,390,785,909
Total for all TRI Chemicals	2,410,890,886	607,943,278	3,018,834,164

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2005: Manufacturing* Industries

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
67-56-1 Methanol	353,328,481	116,555,040	469,883,520
74-85-1 Ethylene	435,151,939	21,117,306	456,269,245
115-07-1 Propylene	240,370,916	6,785	240,377,702
108-88-3 Toluene	140,239,468	60,031,915	200,271,382
7664-41-7 Ammonia	147,348,058	58,602	147,406,660
1330-20-7 Xylene (mixed isomers)	87,141,719	47,401,360	134,543,079
7664-93-9 Sulfuric acid	100,657,622	445	100,658,067
71-43-2 Benzene	47,825,804	1,169,912	48,995,716
100-42-5 Styrene	37,430,497	11,141,928	48,572,425
75-65-0 tert-Butyl alcohol	34,051,278	13,472,000	47,523,278
75-56-9 Propylene oxide	42,604,685	2,461,745	45,066,430
110-54-3 n-Hexane	30,740,856	11,636,907	42,377,763
100-41-4 Ethylbenzene	34,112,427	7,638,312	41,750,739
75-05-8 Acetonitrile	32,418,862	7,927,939	40,346,801
75-07-0 Acetaldehyde	37,646,171	187,071	37,833,242
107-06-2 1,2-Dichloroethane	34,542,225	239,698	34,781,923
75-00-3 Chloroethane	30,968,523	12,741	30,981,264
80-62-6 Methyl methacrylate	26,307,688	3,533,224	29,840,912
79-10-7 Acrylic acid	26,592,901	1,902,212	28,495,113
-- Glycol ethers	14,863,220	11,604,705	26,467,924
Subtotal for Top 20 Chemicals	1,934,343,339	318,099,847	2,252,443,186
Total for all TRI Chemicals	2,405,121,382	433,545,985	2,838,667,367

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

* Manufacturing industries include SIC code 20-39 and "no codes" category.

The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2005: Chemicals (SIC Code 28)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
74-85-1 Ethylene	215,428,094	21,116,825	236,544,919
67-56-1 Methanol	102,348,907	103,433,612	205,782,519
115-07-1 Propylene	193,284,353	6,716	193,291,070
7664-93-9 Sulfuric acid	100,657,622	0	100,657,622
108-88-3 Toluene	19,615,140	41,541,590	61,156,729
75-65-0 tert-Butyl alcohol	30,660,528	13,417,185	44,077,713
75-56-9 Propylene oxide	41,093,165	2,461,704	43,554,869
1330-20-7 Xylene (mixed isomers)	4,121,907	34,925,729	39,047,636
75-07-0 Acetaldehyde	36,426,220	177,398	36,603,618
7664-41-7 Ammonia	35,451,855	53,676	35,505,531
107-06-2 1,2-Dichloroethane	34,494,144	239,697	34,733,841
71-43-2 Benzene	32,941,034	1,044,883	33,985,916
75-05-8 Acetonitrile	26,418,591	7,225,751	33,644,342
75-00-3 Chloroethane	30,949,523	9,141	30,958,664
110-54-3 n-Hexane	19,991,056	10,911,365	30,902,421
100-42-5 Styrene	20,990,815	9,488,941	30,479,756
79-10-7 Acrylic acid	26,592,901	1,888,932	28,481,833
80-62-6 Methyl methacrylate	25,205,097	2,058,299	27,263,396
141-32-2 Butyl acrylate	24,526,497	270,197	24,796,694
75-01-4 Vinyl chloride	22,292,815	128	22,292,943
Subtotal for Top 20 Chemicals	1,043,490,263	250,271,770	1,293,762,033
Total for all TRI Chemicals	1,345,315,693	359,241,302	1,704,556,995

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2005: Primary Metals (SIC Code 33)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
74-85-1 Ethylene	126,292,418	0	126,292,418
71-43-2 Benzene	12,602,111	0	12,602,111
115-07-1 Propylene	5,601,600	0	5,601,600
1330-20-7 Xylene (mixed isomers)	2,356,632	1,636,253	3,992,885
108-88-3 Toluene	3,153,707	558,355	3,712,062
-- Glycol ethers	1,695,406	252,860	1,948,266
95-63-6 1,2,4-Trimethylbenzene	1,436,783	208,956	1,645,739
106-99-0 1,3-Butadiene	1,060,000	0	1,060,000
67-56-1 Methanol	779,681	160,015	939,696
100-41-4 Ethylbenzene	638,725	219,568	858,293
108-95-2 Phenol	551,401	136,248	687,649
71-36-3 n-Butyl alcohol	436,009	146,647	582,656
7664-41-7 Ammonia	549,247	5	549,252
108-10-1 Methyl isobutyl ketone	468,960	37,393	506,353
91-20-3 Naphthalene	291,999	32,291	324,290
872-50-4 N-Methyl-2-pyrrolidone	134,652	153,693	288,345
1319-77-3 Cresol (mixed isomers)	214,378	53,168	267,546
108-39-4 m-Cresol	68,523	24,957	93,480
108-38-3 m-Xylene	35,250	30,852	66,102
106-44-5 p-Cresol	42,860	16,995	59,855
Subtotal for Top 20 Chemicals	158,410,342	3,668,256	162,078,598
Total for all TRI Chemicals	158,518,357	3,815,289	162,333,647

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2005: Paper Products (SIC Code 26)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
67-56-1 Methanol	184,794,359	168,219	184,962,578
108-88-3 Toluene	3,186,403	2,132,061	5,318,464
120-80-9 Catechol	3,343,824	1,201	3,345,025
75-07-0 Acetaldehyde	1,219,951	157	1,220,108
107-21-1 Ethylene glycol	1,052,646	1,425	1,054,071
7664-41-7 Ammonia	1,002,786	524	1,003,310
108-95-2 Phenol	917,146	3,243	920,389
1330-20-7 Xylene (mixed isomers)	524,557	198,162	722,719
50-00-0 Formaldehyde	194,605	1,781	196,386
110-54-3 n-Hexane	94,167	96,572	190,739
1319-77-3 Cresol (mixed isomers)	156,033	0	156,033
100-41-4 Ethylbenzene	89,400	11,381	100,781
108-10-1 Methyl isobutyl ketone	51,311	32,845	84,156
-- Polycyclic aromatic compounds	59,032	0	59,032
-- Glycol ethers	3	47,344	47,347
872-50-4 N-Methyl-2-pyrrolidone	0	28,133	28,133
108-05-4 Vinyl acetate	12,459	15,041	27,500
-- Diisocyanates	0	25,947	25,947
110-82-7 Cyclohexane	19,000	21	19,021
95-63-6 1,2,4-Trimethylbenzene	0	13,350	13,350
Subtotal for Top 20 Chemicals	196,717,681	2,777,407	199,495,088
Total for all TRI Chemicals	196,725,387	2,798,974	199,524,361

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The Chemicals with Largest Total Energy Recovery On-site and Off-site, 2005: Food Products (SIC Code 20)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
-- Polycyclic aromatic compounds	551,181	0	551,181
110-54-3 n-Hexane	154,056	99,737	253,793
108-88-3 Toluene	0	88,190	88,190
91-20-3 Naphthalene	37,583	0	37,583
67-56-1 Methanol	0	14,029	14,029
1330-20-7 Xylene (mixed isomers)	0	10,179	10,179
75-07-0 Acetaldehyde	0	9,446	9,446
110-82-7 Cyclohexane	0	6,049	6,049
7664-41-7 Ammonia	4,912	0	4,912
191-24-2 Benzo(g,h,i)perylene	1,590	0	1,590
50-00-0 Formaldehyde	0	1,000	1,000
75-45-6 Chlorodifluoromethane (HCFC-22)	0	633	633
Total for all TRI Chemicals	749,322	229,263	978,585

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The Chemicals with Largest Total Energy Recovery On-site and Off-site, 2005: Metal Mining (SIC Code 10)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
-- Polycyclic aromatic compounds	0	72	72
Total for all TRI Chemicals	0	72	72

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The Chemicals with Largest Total Energy Recovery On-site and Off-site, 2005: Coal Mining (SIC Code 12)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
Total for all TRI Chemicals	0	0	0

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The Chemicals with Largest Total Energy Recovery On-site and Off-site, 2005: Electric Utilities (SIC Code 491/493)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
-- Polycyclic aromatic compounds	758,051	516	758,566
91-20-3 Naphthalene	114,500	703	115,203
108-95-2 Phenol	96,105	0	96,105
1330-20-7 Xylene (mixed isomers)	38,700	0	38,700
191-24-2 Benzo(g,h,i)perylene	4,836	6	4,842
67-56-1 Methanol	1,750	0	1,750
110-54-3 n-Hexane	1	42	43
95-63-6 1,2,4-Trimethylbenzene	0	18	18
1336-36-3 Polychlorinated biphenyls (PCBs)	0	15	15
75-07-0 Acetaldehyde	14	0	14
50-00-0 Formaldehyde	3	0	3
120-80-9 Catechol	1	0	1
Total for all TRI Chemicals	1,013,961	1,300	1,015,261

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The Chemicals with Largest Total Energy Recovery On-site and Off-site, 2005: Chemical Wholesale Distributors (SIC Code 5169)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
108-88-3 Toluene	0	2,012,439	2,012,439
1330-20-7 Xylene (mixed isomers)	0	1,515,623	1,515,623
67-56-1 Methanol	0	857,114	857,114
-- Glycol ethers	0	485,680	485,680
108-10-1 Methyl isobutyl ketone	0	270,010	270,010
71-36-3 n-Butyl alcohol	0	259,537	259,537
100-42-5 Styrene	0	181,644	181,644
95-63-6 1,2,4-Trimethylbenzene	0	154,580	154,580
107-21-1 Ethylene glycol	0	120,528	120,528
110-54-3 n-Hexane	0	94,062	94,062
79-01-6 Trichloroethylene	0	50,981	50,981
127-18-4 Tetrachloroethylene	0	45,055	45,055
100-41-4 Ethylbenzene	0	41,971	41,971
75-09-2 Dichloromethane	0	39,135	39,135
111-42-2 Diethanolamine	0	20,687	20,687
68-12-2 N,N-Dimethylformamide	0	17,851	17,851
75-05-8 Acetonitrile	0	17,747	17,747
872-50-4 N-Methyl-2-pyrrolidone	0	14,838	14,838
67-66-3 Chloroform	0	10,637	10,637
110-82-7 Cyclohexane	0	9,480	9,480
Subtotal for Top 20 Chemicals	0	6,219,600	6,219,600
Total for all TRI Chemicals	0	6,265,680	6,265,680

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The Chemicals with Largest Total Energy Recovery On-site and Off-site, 2005: Petroleum Terminals/Bulk Storage (SIC Code 5171)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
115-07-1 Propylene	320,000	0	320,000
107-21-1 Ethylene glycol	0	108,062	108,062
95-63-6 1,2,4-Trimethylbenzene	0	97,411	97,411
108-88-3 Toluene	0	69,851	69,851
1330-20-7 Xylene (mixed isomers)	0	65,655	65,655
100-41-4 Ethylbenzene	0	59,124	59,124
74-85-1 Ethylene	24,000	0	24,000
110-54-3 n-Hexane	800	15,574	16,374
91-20-3 Naphthalene	0	11,078	11,078
71-43-2 Benzene	0	10,524	10,524
1634-04-4 Methyl tert-butyl ether	0	6,018	6,018
110-82-7 Cyclohexane	0	941	941
98-82-8 Cumene	0	570	570
67-56-1 Methanol	0	270	270
108-10-1 Methyl isobutyl ketone	0	182	182
127-18-4 Tetrachloroethylene	0	89	89
100-42-5 Styrene	0	88	88
-- Polycyclic aromatic compounds	0	60	60
191-24-2 Benzo(g,h,i)perylene	0	4	4
Total for all TRI Chemicals	344,800	445,500	790,300

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The 20 Chemicals with Largest Total Energy Recovery On-site and Off-site, 2005: Hazardous Waste/Solvent Recovery (SIC Code 7389/4953)

CAS Number Chemname	Quantity Used for Energy Recovery On-site Pounds	Quantity Used for Energy Recovery Off-site Pounds	Total Quantity Used for Energy Recovery On-site and Off-site Pounds
108-88-3 Toluene	169,036	48,242,544	48,411,580
1330-20-7 Xylene (mixed isomers)	259,041	35,753,437	36,012,478
67-56-1 Methanol	196,407	21,387,441	21,583,848
75-09-2 Dichloromethane	87,264	8,524,070	8,611,334
108-10-1 Methyl isobutyl ketone	33,164	8,071,609	8,104,773
110-54-3 n-Hexane	175,289	4,722,180	4,897,469
100-42-5 Styrene	181	4,498,156	4,498,337
-- Glycol ethers	2,500,405	1,942,051	4,442,456
107-18-6 Allyl alcohol	47	4,118,561	4,118,608
71-36-3 n-Butyl alcohol	16,008	3,780,289	3,796,297
100-41-4 Ethylbenzene	14,847	3,679,217	3,694,064
872-50-4 N-Methyl-2-pyrrolidone	148,007	2,636,098	2,784,105
127-18-4 Tetrachloroethylene	10,453	2,508,540	2,518,993
107-21-1 Ethylene glycol	32,823	2,340,860	2,373,683
75-05-8 Acetonitrile	22,144	1,866,214	1,888,358
80-62-6 Methyl methacrylate	525	1,589,978	1,590,503
98-95-3 Nitrobenzene	728	1,298,420	1,299,148
75-65-0 tert-Butyl alcohol	0	1,284,512	1,284,512
110-86-1 Pyridine	7,805	1,100,252	1,108,057
68-12-2 N,N-Dimethylformamide	24,892	694,197	719,089
Subtotal for Top 20 Chemicals	3,699,066	160,038,625	163,737,692
Total for all TRI Chemicals	4,410,743	167,684,741	172,095,484

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.2, Column B (Energy recovery on-site) and Section 8.3, Column B (Energy recovery off-site).

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2005: All Industries

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7647-01-0 Hydrochloric acid	1,636,114,783	5,429,176	1,641,543,958
67-56-1 Methanol	1,060,376,209	101,479,991	1,161,856,200
7664-41-7 Ammonia	577,020,139	13,394,840	590,414,979
74-85-1 Ethylene	544,288,176	5,943,818	550,231,994
7664-93-9 Sulfuric acid	536,596,984	630,937	537,227,921
108-88-3 Toluene	340,499,512	30,420,892	370,920,404
115-07-1 Propylene	352,663,131	9,349,089	362,012,220
-- Nitrate compounds	202,233,758	114,782,773	317,016,532
7697-37-2 Nitric acid	264,990,303	12,143,885	277,134,188
7782-50-5 Chlorine	273,648,392	728,888	274,377,280
7664-39-3 Hydrogen fluoride	243,996,143	2,907,415	246,903,559
463-58-1 Carbonyl sulfide	201,066,868	0	201,066,868
64-18-6 Formic acid	123,675,498	4,168,174	127,843,672
110-54-3 n-Hexane	89,174,857	14,704,652	103,879,509
50-00-0 Formaldehyde	83,077,566	7,450,684	90,528,250
1330-20-7 Xylene (mixed isomers)	65,303,993	14,913,540	80,217,533
107-21-1 Ethylene glycol	52,023,972	25,501,386	77,525,359
75-15-0 Carbon disulfide	65,744,068	175,807	65,919,875
107-06-2 1,2-Dichloroethane	62,875,907	1,450,922	64,326,829
-- Glycol ethers	48,642,342	8,346,119	56,988,461
Subtotal for Top 20 Chemicals	6,824,012,603	373,922,989	7,197,935,592
Total for all TRI Chemicals	8,061,669,753	575,663,639	8,637,333,393

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2005: Manufacturing* Industries

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7647-01-0 Hydrochloric acid	1,368,421,008	5,073,676	1,373,494,684
67-56-1 Methanol	1,045,047,777	97,253,878	1,142,301,655
74-85-1 Ethylene	543,259,318	5,456,707	548,716,025
7664-41-7 Ammonia	491,469,619	13,340,305	504,809,923
115-07-1 Propylene	351,416,299	7,104,103	358,520,402
108-88-3 Toluene	323,013,408	23,359,584	346,372,991
-- Nitrate compounds	199,997,269	113,492,822	313,490,091
7697-37-2 Nitric acid	261,005,443	11,439,987	272,445,430
7782-50-5 Chlorine	264,479,407	726,704	265,206,111
463-58-1 Carbonyl sulfide	201,066,868	0	201,066,868
7664-39-3 Hydrogen fluoride	187,983,986	2,723,428	190,707,413
64-18-6 Formic acid	123,214,253	4,162,692	127,376,946
50-00-0 Formaldehyde	81,842,437	7,411,014	89,253,451
110-54-3 n-Hexane	79,895,721	6,153,564	86,049,285
107-21-1 Ethylene glycol	49,475,831	25,189,091	74,664,922
7664-93-9 Sulfuric acid	66,697,344	469,095	67,166,439
1330-20-7 Xylene (mixed isomers)	57,286,438	9,231,192	66,517,630
75-15-0 Carbon disulfide	65,284,872	175,153	65,460,025
107-06-2 1,2-Dichloroethane	61,105,361	1,383,453	62,488,814
-- Glycol ethers	47,224,629	8,142,285	55,366,915
Subtotal for Top 20 Chemicals	5,869,187,289	342,288,732	6,211,476,021
Total for all TRI Chemicals	6,977,628,014	531,874,278	7,509,502,292

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

* Manufacturing industries include SIC code 20-39 and "no codes" category.

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2005: Chemicals (SIC Code 28)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7647-01-0 Hydrochloric acid	1,321,263,784	1,161,460	1,322,425,243
74-85-1 Ethylene	508,477,793	5,360,921	513,838,714
115-07-1 Propylene	291,877,357	6,984,468	298,861,825
7664-41-7 Ammonia	244,760,669	7,213,895	251,974,564
67-56-1 Methanol	179,822,924	53,740,079	233,563,002
7782-50-5 Chlorine	219,461,160	249,153	219,710,312
7697-37-2 Nitric acid	117,060,396	1,946,404	119,006,800
-- Nitrate compounds	61,029,668	44,622,808	105,652,476
108-88-3 Toluene	84,375,908	19,916,974	104,292,881
50-00-0 Formaldehyde	70,385,262	6,946,558	77,331,820
107-06-2 1,2-Dichloroethane	61,105,361	1,383,449	62,488,810
64-18-6 Formic acid	53,335,142	3,963,013	57,298,155
107-21-1 Ethylene glycol	40,519,701	16,191,536	56,711,236
79-10-7 Acrylic acid	35,473,084	18,025,508	53,498,592
7664-93-9 Sulfuric acid	46,508,118	206,012	46,714,130
110-54-3 n-Hexane	43,444,622	2,003,305	45,447,928
106-99-0 1,3-Butadiene	44,553,750	171,113	44,724,863
79-00-5 1,1,2-Trichloroethane	43,975,741	500,902	44,476,643
108-31-6 Maleic anhydride	42,575,390	1,178,803	43,754,193
75-15-0 Carbon disulfide	42,450,478	62,627	42,513,105
Subtotal for Top 20 Chemicals	3,552,456,306	191,828,986	3,744,285,292
Total for all TRI Chemicals	4,346,784,231	335,147,295	4,681,931,526

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2005: Primary Metals (SIC Code 33)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7664-39-3 Hydrogen fluoride	129,516,788	433,716	129,950,504
7697-37-2 Nitric acid	52,387,249	1,459,148	53,846,397
7782-50-5 Chlorine	32,107,019	356,161	32,463,180
7647-01-0 Hydrochloric acid	22,705,571	3,025,319	25,730,890
7664-41-7 Ammonia	15,232,028	244,945	15,476,973
-- Nitrate compounds	3,332,923	7,882,296	11,215,219
108-95-2 Phenol	9,339,249	314,532	9,653,781
67-56-1 Methanol	538,575	7,158,870	7,697,445
7429-90-5 Aluminum (fume or dust)	58,688	7,226,641	7,285,329
74-85-1 Ethylene	6,979,792	44,595	7,024,387
7440-66-6 Zinc (fume or dust)	0	6,461,735	6,461,735
7632-00-0 Sodium nitrite	4,838,144	371,003	5,209,147
1330-20-7 Xylene (mixed isomers)	3,283,376	79,767	3,363,143
108-88-3 Toluene	3,060,014	27,619	3,087,633
95-63-6 1,2,4-Trimethylbenzene	2,823,692	17,935	2,841,627
-- Glycol ethers	2,788,979	47,577	2,836,556
74-90-8 Hydrogen cyanide	2,600,021	0	2,600,021
872-50-4 N-Methyl-2-pyrrolidone	2,422,786	1,696	2,424,482
-- Cyanide compounds	2,130,502	230,154	2,360,656
7664-93-9 Sulfuric acid	1,816,321	188,731	2,005,052
Subtotal for Top 20 Chemicals	297,961,717	35,572,440	333,534,157
Total for all TRI Chemicals	311,290,826	36,292,050	347,582,877

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2005: Paper Products (SIC Code 26)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
67-56-1 Methanol	834,820,900	33,339,156	868,160,056
64-18-6 Formic acid	68,185,162	10,846	68,196,008
0049-04-4 Chlorine dioxide	39,736,395	0	39,736,395
108-88-3 Toluene	34,524,239	999,384	35,523,623
7664-41-7 Ammonia	15,727,686	55,712	15,783,398
7782-50-5 Chlorine	11,065,500	87,980	11,153,480
7647-01-0 Hydrochloric acid	8,286,640	0	8,286,640
75-07-0 Acetaldehyde	7,227,513	136,094	7,363,607
108-95-2 Phenol	4,010,566	20,686	4,031,252
7664-93-9 Sulfuric acid	3,956,670	0	3,956,670
50-00-0 Formaldehyde	3,716,169	159,414	3,875,583
1330-20-7 Xylene (mixed isomers)	2,585,007	83,407	2,668,414
110-54-3 n-Hexane	2,295,590	34,806	2,330,396
0028-15-6 Ozone	2,311,000	0	2,311,000
75-15-0 Carbon disulfide	956,047	0	956,047
872-50-4 N-Methyl-2-pyrrolidone	596,404	290,602	887,006
120-80-9 Catechol	851,641	8,962	860,603
107-21-1 Ethylene glycol	511,538	271,531	783,069
-- Nitrate compounds	667,680	8,896	676,576
108-10-1 Methyl isobutyl ketone	406,763	26,800	433,563
Subtotal for Top 20 Chemicals	1,042,439,110	35,534,276	1,077,973,386
Total for all TRI Chemicals	1,045,359,759	35,768,317	1,081,128,075

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2005: Food Products (SIC Code 20)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
-- Nitrate compounds	126,813,446	25,903,239	152,716,685
7697-37-2 Nitric acid	42,209,602	3,583,159	45,792,761
7664-41-7 Ammonia	37,955,547	3,791,477	41,747,024
107-21-1 Ethylene glycol	2,540,259	3,969,598	6,509,857
7647-01-0 Hydrochloric acid	4,201,699	0	4,201,699
67-56-1 Methanol	2,060,394	964,113	3,024,507
7632-00-0 Sodium nitrite	1,985,696	40,887	2,026,583
75-21-8 Ethylene oxide	1,457,326	614	1,457,940
75-07-0 Acetaldehyde	1,289,756	116,223	1,405,979
7664-93-9 Sulfuric acid	1,219,948	40,047	1,259,995
7782-50-5 Chlorine	1,018,045	3,691	1,021,736
75-56-9 Propylene oxide	699,606	7,543	707,149
0049-04-4 Chlorine dioxide	265,883	0	265,883
-- Glycol ethers	89,001	158,307	247,308
7664-39-3 Hydrogen fluoride	150,000	0	150,000
79-21-0 Peracetic acid	144,147	2,063	146,210
0028-15-6 Ozone	80,992	0	80,992
50-00-0 Formaldehyde	64,720	12,971	77,691
110-54-3 n-Hexane	18,446	49,215	67,661
107-02-8 Acrolein	42,495	1,187	43,682
Subtotal for Top 20 Chemicals	224,307,008	38,644,334	262,951,342
Total for all TRI Chemicals	224,372,280	38,674,832	263,047,112

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The Chemicals with Largest Total Treated On-site and Off-site, 2005: Metal Mining (SIC Code 10)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7664-93-9 Sulfuric acid	57,560,220	0	57,560,220
-- Cyanide compounds	12,265,932	0	12,265,932
7632-00-0 Sodium nitrite	968,050	0	968,050
7697-37-2 Nitric acid	229,000	0	229,000
-- Nitrate compounds	84,200	0	84,200
7664-41-7 Ammonia	22,100	0	22,100
7664-39-3 Hydrogen fluoride	3,970	0	3,970
108-88-3 Toluene	0	1,500	1,500
74-90-8 Hydrogen cyanide	720	0	720
1330-20-7 Xylene (mixed isomers)	0	640	640
-- Polycyclic aromatic compounds	0	93	93
-- Dioxin and dioxin-like compounds	0.000003	0.000000	0.000003
Total for all TRI Chemicals	71,134,192	2,233	71,136,425

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The Chemicals with Largest Total Treated On-site and Off-site, 2005: Coal Mining (SIC Code 12)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7647-01-0 Hydrochloric acid	242,158	0	242,158
7664-93-9 Sulfuric acid	12,227	0	12,227
Total for all TRI Chemicals	254,385	0	254,385

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The Chemicals with Largest Total Treated On-site and Off-site, 2005: Electric Utilities (SIC Code 491/493)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
7664-93-9 Sulfuric acid	410,378,483	204	410,378,687
7647-01-0 Hydrochloric acid	249,174,662	0	249,174,662
7664-41-7 Ammonia	84,888,550	12,690	84,901,240
7664-39-3 Hydrogen fluoride	47,076,653	0	47,076,653
-- Polycyclic aromatic compounds	2,323,131	30	2,323,161
-- Barium compounds	1,385,073	0	1,385,073
7782-50-5 Chlorine	705,292	0	705,292
-- Nitrate compounds	577,704	0	577,704
91-20-3 Naphthalene	59,555	1,053	60,608
191-24-2 Benzo(g,h,i)perylene	16,090	1	16,091
7632-00-0 Sodium nitrite	10,821	0	10,821
110-54-3 n-Hexane	0	174	174
107-21-1 Ethylene glycol	0	170	170
-- Lead compounds	0	86	86
1336-36-3 Polychlorinated biphenyls (PCBs)	14	0	14
95-63-6 1,2,4-Trimethylbenzene	0	1	1
Total for all TRI Chemicals	796,596,028	14,409	796,610,437

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2005: Chemical Wholesale Distributors (SIC Code 5169)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
106-99-0 1,3-Butadiene	281,000	0	281,000
7647-01-0 Hydrochloric acid	272,749	0	272,749
7664-41-7 Ammonia	204,084	38,345	242,429
108-88-3 Toluene	1,772	159,470	161,242
67-56-1 Methanol	4,056	128,967	133,023
1330-20-7 Xylene (mixed isomers)	593	113,788	114,381
7697-37-2 Nitric acid	70,430	33,030	103,460
-- Glycol ethers	116	84,463	84,579
115-07-1 Propylene	59,392	0	59,392
7664-93-9 Sulfuric acid	55,563	0	55,563
108-10-1 Methyl isobutyl ketone	38	44,906	44,944
75-09-2 Dichloromethane	1,980	35,137	37,117
71-36-3 n-Butyl alcohol	37	30,231	30,268
107-21-1 Ethylene glycol	3	27,341	27,344
110-54-3 n-Hexane	6,379	12,402	18,781
7664-39-3 Hydrogen fluoride	17,132	578	17,710
79-01-6 Trichloroethylene	0	14,385	14,385
7782-50-5 Chlorine	12,368	180	12,548
127-18-4 Tetrachloroethylene	0	12,411	12,411
88-85-7 Dinitrobutyl phenol	10,338	0	10,338
Subtotal for Top 20 Chemicals	998,030	735,634	1,733,664
Total for all TRI Chemicals	1,006,497	820,413	1,826,911

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2005: Petroleum Terminals/Bulk Storage (SIC Code 5171)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
115-07-1 Propylene	1,114,976	2,244,985	3,359,961
1634-04-4 Methyl tert-butyl ether	2,370,047	4,556	2,374,603
108-88-3 Toluene	1,621,256	67,655	1,688,911
110-54-3 n-Hexane	1,474,275	151,961	1,626,236
74-85-1 Ethylene	1,007,944	487,066	1,495,010
1330-20-7 Xylene (mixed isomers)	901,265	90,064	991,329
71-43-2 Benzene	708,881	56,485	765,366
95-63-6 1,2,4-Trimethylbenzene	300,015	10,083	310,097
100-41-4 Ethylbenzene	210,826	17,600	228,426
110-82-7 Cyclohexane	132,686	72,084	204,770
91-20-3 Naphthalene	30,112	8,353	38,465
67-56-1 Methanol	10,200	0	10,200
106-99-0 1,3-Butadiene	4,032	760	4,792
75-65-0 tert-Butyl alcohol	3,655	53	3,708
77-73-6 Dicyclopentadiene	0	2,505	2,505
98-82-8 Cumene	416	1,908	2,324
107-21-1 Ethylene glycol	0	1,042	1,042
-- Polycyclic aromatic compounds	223	467	690
872-50-4 N-Methyl-2-pyrrolidone	310	0	310
100-42-5 Styrene	4	129	133
Subtotal for Top 20 Chemicals	9,891,121	3,217,757	13,108,879
Total for all TRI Chemicals	9,891,168	3,217,773	13,108,942

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).

The 20 Chemicals with Largest Total Treated On-site and Off-site, 2005: Hazardous Waste/Solvent Recovery (SIC Code 7389/4953)

CAS Number Chemname	Quantity Treated On-site Pounds	Quantity Treated Off-site Pounds	Total Quantity Treated On-site and Off-site Pounds
108-88-3 Toluene	15,863,076	6,832,683	22,695,759
67-56-1 Methanol	15,314,177	4,097,146	19,411,322
7647-01-0 Hydrochloric acid	18,004,205	355,500	18,359,705
75-09-2 Dichloromethane	11,173,585	5,043,596	16,217,180
110-54-3 n-Hexane	7,798,482	8,386,551	16,185,033
1330-20-7 Xylene (mixed isomers)	7,115,697	5,477,856	12,593,553
7664-39-3 Hydrogen fluoride	8,914,403	183,410	9,097,813
7782-50-5 Chlorine	8,451,325	2,004	8,453,329
7782-41-4 Fluorine	5,388,521	0	5,388,521
75-05-8 Acetonitrile	4,772,574	47,721	4,820,295
7697-37-2 Nitric acid	3,685,430	670,868	4,356,298
1336-36-3 Polychlorinated biphenyls (PCBs)	4,029,585	312,295	4,341,880
75-21-8 Ethylene oxide	3,929,940	1,315	3,931,255
108-10-1 Methyl isobutyl ketone	3,247,991	505,236	3,753,228
71-43-2 Benzene	3,189,732	345,718	3,535,450
71-36-3 n-Butyl alcohol	2,959,935	299,248	3,259,183
127-18-4 Tetrachloroethylene	1,953,079	990,921	2,944,000
-- Nitrate compounds	1,574,585	1,286,119	2,860,704
107-21-1 Ethylene glycol	2,548,138	283,743	2,831,880
100-42-5 Styrene	2,639,178	181,056	2,820,234
Subtotal for Top 20 Chemicals	132,553,637	35,302,985	167,856,623
Total for all TRI Chemicals	205,159,469	39,734,532	244,894,001

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata.

Data are from TRI Form R, Section 8.6, Column B (Treated on-site) and Section 8.7, Column B (Treated off-site).